

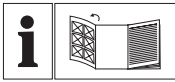
FMH 2400 A1



GB IE

Garden Shredder

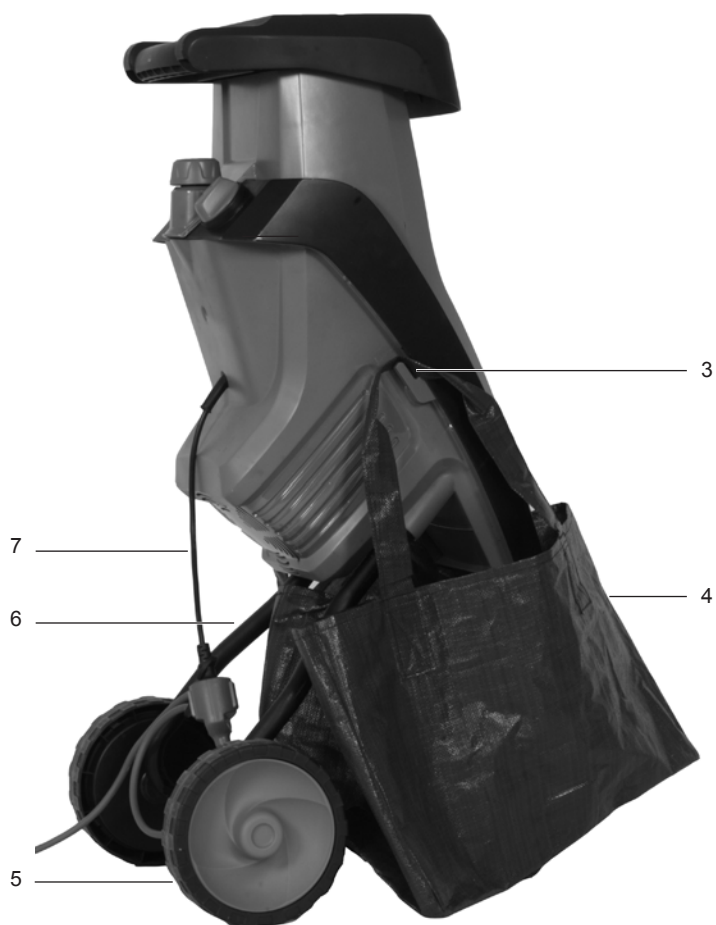
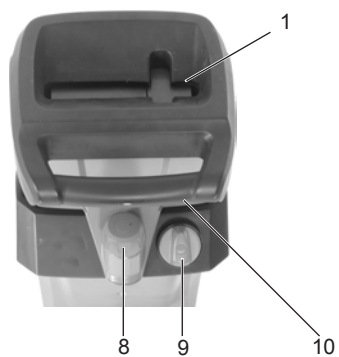
Translation of original operation manual

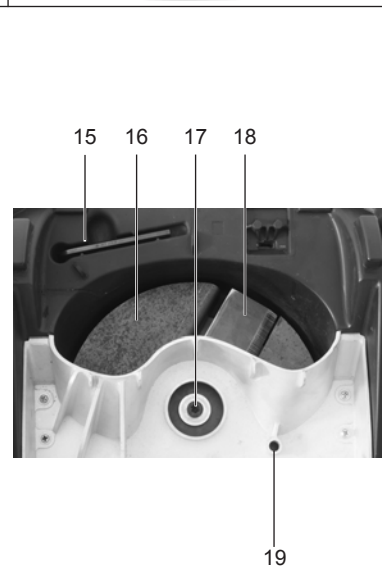
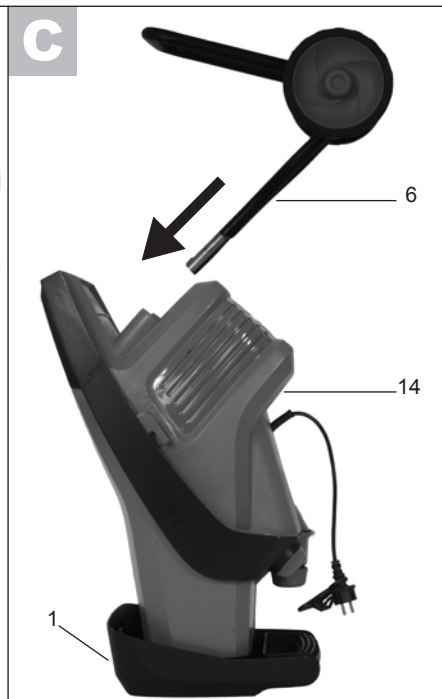
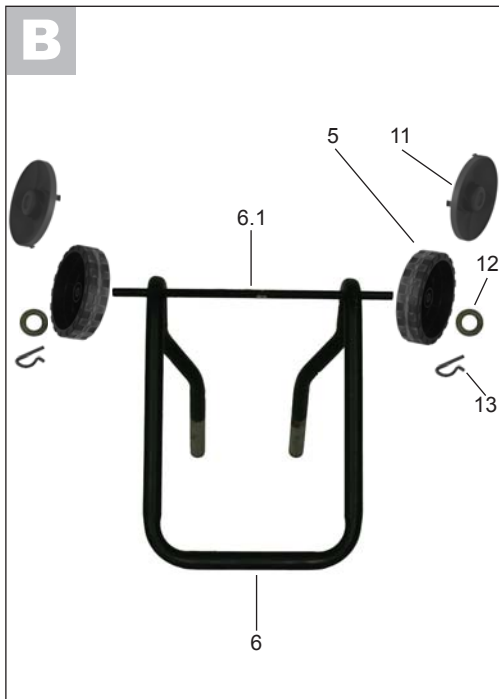


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Before reading, unfold the page containing the illustrations and familiarise yourself with all functions of the device.

A





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Intended purpose

The shredder is intended for compacting fibrous and wood-related materials such as hedge and tree cuttings, branches, bark and pine cones.

Any use not expressly permitted in this manual may damage the shredder and pose a serious danger to the user.

Do not fell the shredder with stones, glass, metal, bones, plastics or fabrics.

The operator or user is responsible for accidents and injury or damage to third parties.

The manufacturer will not be held responsible for any damage caused by improper operation or use beyond the purpose intended.

Safety precautions



This shredder may cause serious injuries if improperly used. Before using the shredder, read the user manual carefully and familiarise yourself with all of the controls. In cases of uncertainty, ask an expert for advice. Keep the manual in a safe place and pass it on to any subsequent owner to ensure that the information contained therein is available at all times.




Symbols used in the instructions



Hazard symbols with information on prevention of personal injury and property damage.



Precaution symbol (explanation of precaution instead of exclamation mark) with information on prevention of harm / damage.

 Notice symbol with information on how to handle the device properly.



Do not dispose of electrical equipment in the domestic waste.

Symbols on the shredder



Warning!



Read the manual.



Wear ear and eye protection.



Wear hand protection.



Do not expose the unit to rain.



Caution! Switch off the motor and disconnect from the mains before adjustment or cleaning work, or if the flex is caught or has been damaged.



Warning! Risk of injury by rotating blade!



Keep your hands and feet away from the funnel feeder while the shredder is in operation.



Warning! Danger from spin-off. Keep your distance from the feeder and ejection area, and keep others away from the danger area.



Caution!
Trailing blade



Warning! Electric shock hazard.



Always unplug the shredder before working on it.



Guaranteed noise power level

General notes on safety

- This equipment is not intended for use by people (including children) with limited physical, sensory or intellectual abilities or lack of experience and/or lack of knowledge, other than with the supervision of a person responsible for their safety or with the instruction of the same in terms of how to use the equipment.
- Children must be supervised in order to ensure that they do not play with the equipment.
- Never allow children or other persons unfamiliar with the user manual to use the shredder. Local regulations or by-laws may determine the minimum age for using the shredder.



Observe noise control and local regulations.



Caution! When using power tools, observe the following basic safety measures for the prevention of electric shocks and the risk of injury and fire:

Preparation:

- Never use the shredder with other persons or animals nearby.
- Wear hearing and eye protection at all times when using the shredder.
- Wear appropriate protective clothing such as protective gloves, firm footwear and long trousers. Do not wear loosely fitting clothes or clothes with dangling cords or belts.

- Only use the shredder in the open (that is, away from walls or other rigid structures) on a firm, level surface.
- Do not use the machine on a paved, gravelled area, which could be damaged by ejected material.
- Before you start up the shredder, check that all of the nuts, bolts and other fastenings are tight. Covers and shields must be fastened properly and in good working order. Replace any damaged or illegible stickers.
- Only use replacement parts and accessories supplied and recommended by the manufacturer. Using third-party parts will immediately invalidate the guarantee.
- Do not leave the shredder working unattended and keep it in a dry place out of children's reach.
- Only connect the shredder to a properly earthed mains power supply. Make sure that the extension cable and socket are properly earthed.
- While being used in the open, connect the shredder to a residual current (RC) circuit breaker with a trip current of not more than 30 mA.
- Do not use the shredder in the rain and in bad weather. Work in daylight or under good lighting conditions.
- Do not operate the shredder when you are tired or distracted, or under the influence of alcohol or medication. Always take a break when you need one and be sensible about how you work.
- Switch the shredder off and pull the plug under the following circumstances:
 - when you are not using the device,
 - transporting it or leaving it unattended;
 - before releasing a jammed blade.
 - when you are checking the device, cleaning it or removing blockages;
 - when you are carrying out cleaning or maintenance work or replacing accessories;
 - Before moving or lifting the shredder
 - If foreign objects should enter the shredder, if the shredder is making unfamiliar noises or vibrations (check the shredder for damage before starting it up again)
- Do not allow shredded material to accumulate near the ejection area. This may otherwise hinder proper ejection and force the material back up through the feeder.

Working with the device:

- Make sure that the funnel feeder is empty before you start the shredder.
- Keep your head, hair and body away from the intake opening.
- Do not reach into the funnel feeder during operation. The shredder will continue to run for a short period after you switch it off.
- Always stay outside of the ejection zone during initial operation of the equipment.
- Always make sure you are standing in a firm, balanced position. Do not lean forwards, and never stand above the shredder when inserting materials.
- Make sure that the material inserted into the shredder does not contain hard objects made of metal, stone, glass or similar.
- Do not transport or tip the shredder with the motor running.
- Keep hands, other body parts and clothing out of the filling chamber and ejection channel and away from other moving parts.
- In the event of blockages in the machine intake or ejection, switch off the motor and disconnect the machine from the mains before removing leftover material in the intake opening or ejection channel. Ensure that the motor is free of rubbish and other accumulations in order to safeguard the motor from damage or possible fire.

Remember that the cutting tool is also activated when the starting mechanism is started on a motor operated machine.



CAUTION! The following states how damage to the trimmer and possible injury to people can be avoided:

- Handle the unit with care. Clean the ventilation slits regularly; keep to the maintenance instructions.
- Do not overload your device. Work only within the indicated range of performance. Do not employ any low power machines for heavy work. Do not use your device for purposes for which it has not been designed.
- Only switch the shredder off once the funnel feeder is completely empty since the shredder may otherwise clog up and not be able to start afterwards.
- Do not attempt to repair the shredder yourself unless you are qualified to do so. Any work not specified in this manual may only be carried out by our service centre.
- If the power cable for this equipment is damaged, it must be replaced by the manufacturer, a customer service agent of the same or a similarly qualified person in order to prevent hazards.
- Do not use the appliance if the on/off switch does not work properly. Always have a damaged switch repaired by our Service Centre (See p. 17 for the address).
- Only use extension cables that have been approved for outdoor use and are resistant to splash water. The core diameter for extension cables measuring up to 25 m must be at least 1.5 mm², and 2.5 mm² for cables longer than 25m. Always roll the whole cable off the reel before use. Check the cable for damage.
- Do not unplug the shredder by the cable. Keep the cable away from heat, oil and sharp edges.

Electrical safety



CAUTION! The following states how to avoid accidents and injuries due to electric shock:

- Use the tension relief provided for the fixing of the extension cord.
- Damaged cables, coupling and plugs or connecting leads not corresponding to specifications, must not be employed. Remove the plug immediately from the plug socket in case of damage to the mains cable.
Do not touch the mains power supply cable under any circumstances until you have pulled the plug out of the mains socket.

General description

Functional description

The shredder has a powerful electric motor with overload protection. Cutting is performed by a system of blades. The sturdy chassis ensures a stable standing position with good mobility.

Refer to the following descriptions for a functional description of the controls.



See the front fold-out page for illustrations.

Summary



- 1 Hopper
- 2 Pusher
- 3 Bag mount
- 4 Collection bag
- 5 Wheel
- 6 Chassis

- 7 Mains lead
- 8 Housing interlock
- 9 On/Off switch
- 10 Handle

Installation manual

Scope of delivery

- Operating and safety instructions
- Shredder
- Chassis
- Collection bag
- Two wheels, wheel covers, and mounting material
- Allen wrench
- Pusher

Assembling the shredder

B

Slide the axle (6.1) into the chassis (6).

Mount the two wheels (5) onto the chassis (6).

Slide the two wheels (5) onto the chassis axle (6). Slip the washers (12) onto the axle and stick the split pins (14) through the appropriate holes in the axle.

Clip the wheel covers (11) onto the wheels.

C

Place the shredder (14) on the hopper (1). Push the chassis (6) into the shredder.

Operation

Start-up



Check that the mains voltage matches the rating on the name plate.

Hook the collection bag (4) into the bag mounts (3).

Switching the shredder on and off



Make a loop at the end of the extension cable and hang the loop onto the strain relief on the mains cable (7).

Connect the extension cable. Make sure that the funnel feeder is empty.

1. Set the On/Off switch (9) to turn on the unit.

Place your chopping material in the fill hopper. The material is drawn in and chopped.

2. Set the On/Off switch (9) back to "OFF" to turn off the unit.

The shredder will continue to run immediately after switching off.

Emptying the collection bag



Avoid filling the collection bag too much. Mind that the bag will unevenly fill under the discharge duct!

1. Turn off the unit.
2. Remove and empty the collection bag (4).

Overload protection

In the event of overload, e.g. due to branches that are too thick, the equipment automatically switches off.

To restart, allow the equipment to cool then switch it back on.

Restart prevention

The unit will not automatically restart when the power returns after a power cut. To restart the unit, press the On switch.

Working methods

General working instructions



Keep enough distance to the shredder since long branches can be spun off while being drawn into the shredder.



Wear ear and eye protection



Wear hand protection

- When feeding branches to the unit, keep holding them until they are automatically drawn in.
- Adapt to the speed of the shredder and avoid overloading the unit.
- To avoid the unit clogging up, mix the branches with twigs and gardening waste allowed to wither for several days.
- To prevent the blades from becoming blunt quickly, remove mud and stones from the roots before shredding.
- Do not shred but directly compost all soft and wet material such as kitchen waste.
- Keep a couple of dry branches to use them for cleaning the unit at the end.

- Do not turn off the unit until all the material has passed the blades. Remaining material may otherwise block the blade when you restart the unit.

Freeing up a jam

D



Before starting to service or clean the unit, turn off the unit, pull the power plug, and wait until the blade stands still. Risk of injury from electric shock, fire and rotating blades.

- Check that the power plug (A7) is pulled properly.
- Unlock the housing interlock (8).
- Tip forward the front part of the shredder housing. You can remove it completely and put it aside.
- You now have full access to the blades (18).
- Remove the blockage.

Sharpening, turning or replacing the blades



Before starting to service or clean the unit, turn off the unit, pull the power plug, and wait until the blade stands still. Risk of injury from electric shock, fire and rotating blades.

- Check that the power plug (A7) is pulled properly.
- Unlock the housing interlock (8).
- Tip forward the front part of the shredder housing. You can remove it completely and put it aside.
- You now have full access to the blade (18).
- Use a screwdriver to block the blade plate (16). Slot the screwdriver into the access hole (19) and carefully turn the blade plate (16) until one of the

two blocking apertures appears. Now block the blade plate (16) by slotting the screwdriver right through it.

- Use the Allen wrench (15) to unscrew the screw (17) in the blade plate (16) and remove the blade (18).



To assemble the blade you must use a new screw and tighten it with an torque of 16 Nm.

Maintenance and cleaning



Leave all work not described in this manual to an authorised customer service centre. Only use original parts.



Wear hand protection when working on the blade.



Before starting to service or clean the unit, turn off the unit, pull the power plug, and wait until the blade stands still. Risk of injury from electric shock, fire and rotating blades.

General cleaning and servicing



Do not spray water onto the shredder. Electric shock hazard.

- Always keep the shredder, wheels and air vents clean. Use a brush or cloth to clean it, avoid cleaners and solvents.
- Always check that the shredder and especially the guards are not worn down or damaged but firmly attached before use. Check that the nuts, bolts and screws are tight.
- Check the covers and guards for damage and improper attachment. If necessary, change the components
- Keep the shredder in a dry place out of children's reach. Do not cover the shredder in nylon bags, as moisture may develop.

Replacement parts

Replacement parts can be ordered directly from our service centre (see address on page 17). In your order, quote the equipment type and position number in the exploded view.

Screw..... 91097183
Blade 91093080

Waste disposal and environmental protection

Be environmentally friendly. Return the tool, accessories and packaging to a recycling centre when you have finished with them.



Machines do not belong with domestic waste.

Hand over the device at an utilization location. The plastic and metal parts employed can be separated out into pure materials and recycling can be implemented. Ask your Service Center about this.

Guarantee

- We provide a 36-month guarantee on this unit, or 12 months for commercial use according to the statutory regulations in Germany.
If you have reason to launch a claim on guarantee, please call our service centre (see page 17 for our tel., fax and e-mail address). They will give you further information on the complaints management process.
- The guarantee does not cover damage from natural wear, overloading or improper use. Certain components, such as the blade are subject to normal wear and are not covered by guarantee.

- Guarantee is conditional on adherence to instructions on cleaning and servicing instructions.
- Damage resulting from material or manufacturing defects shall be remedied by replacement or repair free of charge.
- Our service centre will also repair parts not covered by guarantee for a fee. The service centre will be pleased to give you a cost estimate. We can only repair equipment with sufficient postage and packaging by the sender.
- This requires you to return the non-dismantled unit together with its receipt slip and warranty card to our Service Centre.
- **We will not accept bulk consignments, express or other special freight where postage has not been paid for.**
- We will dispose of your equipment free of charge.

* The max. branch thickness that can be chaffed is dependent on the type of wood and the quality of the goods being cut.

For hard wood (e.g. oak/beech branches), the max. branch thickness that can be chaffed is less than for soft wood (e.g. pine/spruce wood). For dry or knotted wood, the cutting thickness may also be less.



The equipment is intended only for use in premises in which the current bearing capacity of the network is ≥ 100 A per phase and which are supplied by a distribution grid with a nominal voltage of 400/230V.

To be on the safe side, check with your local electric utility to verify that the junction point of the mains has enough continuous current carrying capacity for the unit.

Noise and vibration values were determined according to the standards and stipulations mentioned in the declaration of conformity.

Technical and optical changes can be carried out in the course of further development without notice. All dimensions, references and information of this instruction manual are therefore without guarantee. Legal claims, which are made on the basis of the instruction manual, cannot thus be considered as valid.

Technical specifications

Blade-type shredder	FMH 2400 A1
Nominal power intake	2400 W
Nominal voltage	220V-240 V, 50 Hz
Safety class	□ II
Degree of protection	IP24
Idling speed (n_0)	3940 min ⁻¹
Branch thickness	max. 40 mm*
Volume of collection bag	ca. 60 l
Weight	12 kg
Guaranteed sound power level	107 dB(A)
Measured sound power level (LwA)	106 dB(A); KwA = 1 dB(A)
Acoustic pressure level (LpA)	86,4 dB(A); KpA = 1 dB(A)

The sound levels have been determined in accordance with noise measuring process EN 13683:2009-09, appendix F.

Troubleshooting

Problem	Possible cause	Remedy
Motor will not start	No mains power supply	Check the socket, cable, lead and plug for damage, and if necessary, have any damage repaired by qualified repair personnel.
	Overload protection tripped	Wait until the motor has cooled down, then press the Reset button and restart the unit
	Lid of housing not closed properly	Tightly screw in the housing interlock
Garden waste is not drawn in	Shredding material is too soft	Use the pusher or add dry twigs/branches
	Unit blocked	See section „Removing blockages“
	Shredding material in discharge duct	Remove shredding material from discharge duct
Unit won't shred properly	Blades are blunt	Check and turn, sharpen or replace blades as necessary (see section „Sharpening, turning, replacing the blades“)



EU declaration of conformity

We hereby confirm that the
Blade-type shredder
Design Series FMH 2400 A1
Serial number 100900001 - 101128000

conforms with the following applicable relevant version of the EU guidelines as of model year 2010 :

2006/42/EC • 2004/108/EC • 2000/14/EC

In order to guarantee consistency, the following harmonised standards as well as national standards and stipulations have been applied:

**EN 61000-3-2:2006 • EN 61000-3-11:2000 • EN 55014-1:2006
EN 55014-2:1997/A1:2001/A2:2008 • EN 60335-1/A13:2008 • EN 13683/A1:2009
FprEN 50434:2005 • EN 62233:2008**

We additionally confirm the following in accordance with the 2000/14/EC emissions guideline:

Guaranteed sound power level: 107 dB(A)

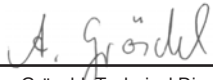
Measured sound power level: 106 dB(A)

Compliance evaluation process carried out in accordance with Appendix V, 2000/14/EC

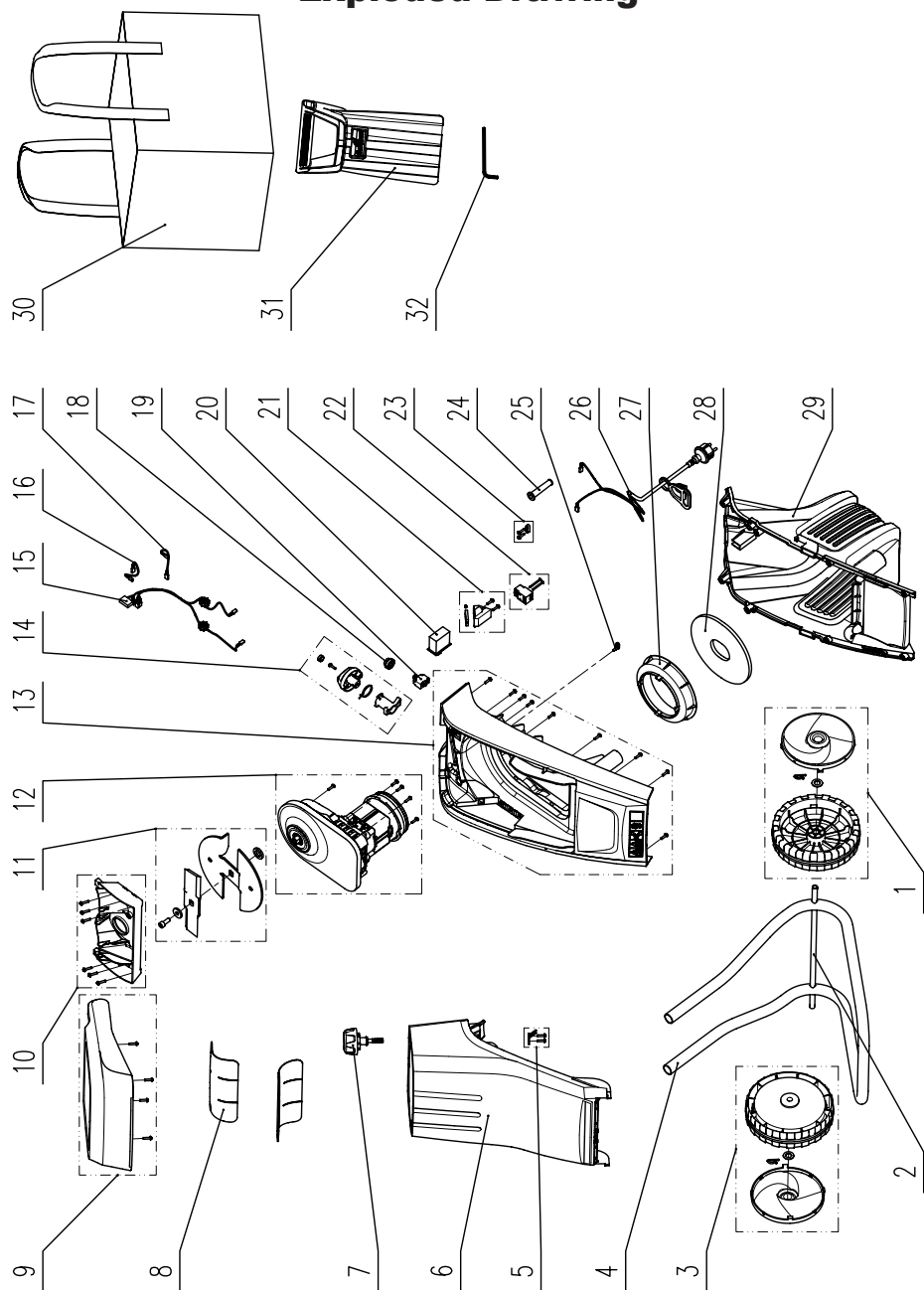
Labelled with CE identification mark in 2010



Grizzly Gartengeräte GmbH & Co. KG
Am Gewerbepark 2
D-64823 Groß-Umstadt / 28.12.2010


(Andreas Grösch, Technical Director
and Documentation Representative)

Exploded Drawing



informative

Grizzly Service-Center

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IAN 57372

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